



# MIAMI SHORES VILLAGE BAYFRONT PARK - STATUS UPDATE JUNE 6, 2023

# OUTLINE

- Introduction
- Site Investigation
- Public Engagement
- Florida Inland Navigation District (FIND)
- Preliminary Design
- Cost
- Schedule





# INTRODUCTION

CHEN MOORE TODAY

- Founded in Florida in 1986
- Multi-discipline full-service firm whose services include Civil Engineering, Landscape Architecture, Utility Engineering, Water Resources, Transportation, Planning, Electrical Engineering & Construction Engineering Services
- Over 120 full time employees
- “We’re in the people business.” — Dr. Ben Chen, P.E.



# INTRODUCTION

## OUR PROJECT MANAGEMENT TEAM



SHAHIN HEKMAT  
P.E. PLA, AICP

### QA/QC

- Professional Experience: 32 years
- Role: Substitute QA/QC
- Qualifications: Stormwater management and drainage design, with concentration on watershed analysis and preparation of storm water facility reports and master plans
- Work Profile: Roadway and land development projects; water and sewer, paving, grading, drainage systems and flood routing analysis, permitting, construction oversight, and project close-out



PATRICK KAIMRAJH  
P.E.

### Project Manager

- Professional Experience: 15 years
- Role: Project Manager
- Qualifications: civil engineering design, drafting, permitting, and construction inspection.
- Work Profile: Site development and neighborhood improvement, paving, drainage and stormwater management, sanitary sewer and stormwater pump stations, and water main projects.



CRIS BETANCOURT  
P.E., F. ASCE, ENV SP, LEED AP

### Principal-in-Charge

- Professional Experience: 25 years
- Role: Vice President - Landscape Architecture/Planning
- Qualifications: Public Space Designer well versed in Transportation, Streetscapes, Complete Streets, Parks and Recreation, and Municipal Facility Projects
- Work Profile: Lead for any landscape architecture





# INTRODUCTION

SUBCONSULTANT TEAM



**Longitude Surveyors, LLC**  
Surveying and SUE

**CUMMINS | CEDERBERG**  
Coastal & Marine Engineering

**Cummins Cederberg**  
Environmental, Coastal, & Marine  
Engineering

**We've collaborated on over  
100 projects together!**



**Media Relations Group, LLC**  
Public Engagement



**Pan Geo Consultants, LLC**  
Geotechnical Engineering



# PARK EXPERIENCE



- Over 50 Parks Facilities in the last 5 Years
- Parks and Recreation System Master Plans
- Natural Resource based Parks
- Special Use Parks (Cable Parks, Water Parks, Adventure Parks, Skate Parks, Dog Parks)
- Urban Parks
- Regional Parks
- Golf Courses
- Neighborhood Parks
- Athletic Field Design
- Coastal Parks





- Currie Park — City of West Palm Beach
- Downtown Streetscaping - City of Coral Springs
- Westside Park Baseball Fields — City of Deerfield Beach
- Doral Glades Park — City of Doral
- Doral White Course Park— City of Doral
- City Park Phase I — City of Oakland Park
- North Shore Bandshell Park Improvements — City of Miami Beach
- New Park, 2200 SW 9th Ave and 910 SW 22nd Rd — City of Miami
- West End Park — City of Miami
- Bay of Pigs Park — City of Miami
- Jefferson Street Dune Restoration City of Hollywood
- Fort Lauderdale Beach Park
- Orange Bowl Field at Carter Park — City of Fort Lauderdale
- Oriole Park — City of Margate
- Centennial Park — City of Margate





# STREETSCAPE EXPERIENCE

- Local Street Enhancements
- Highway Beautification for State and Municipal Agencies
- Implementing LID Concepts within Municipal Rights-of-Way
- Complete Streets/Traffic Calming — Planning and Design



Euclid Streetscape — Lincoln Center





# SCOPE OF WORK – DESIGN PHASE



- Site Investigation
- Public Engagement
- Schematic Design
- Construction Documents
  - 30%, 60%, & 90%
- Permitting
- Bidding

# SITE INVESTIGATION

- Topographic & Bathymetric Survey
- Geotechnical Investigation
- Utility Coordination
- Arborist Report
- **Coastal and Marine Field Observation Report**
- Seagrass Assessment



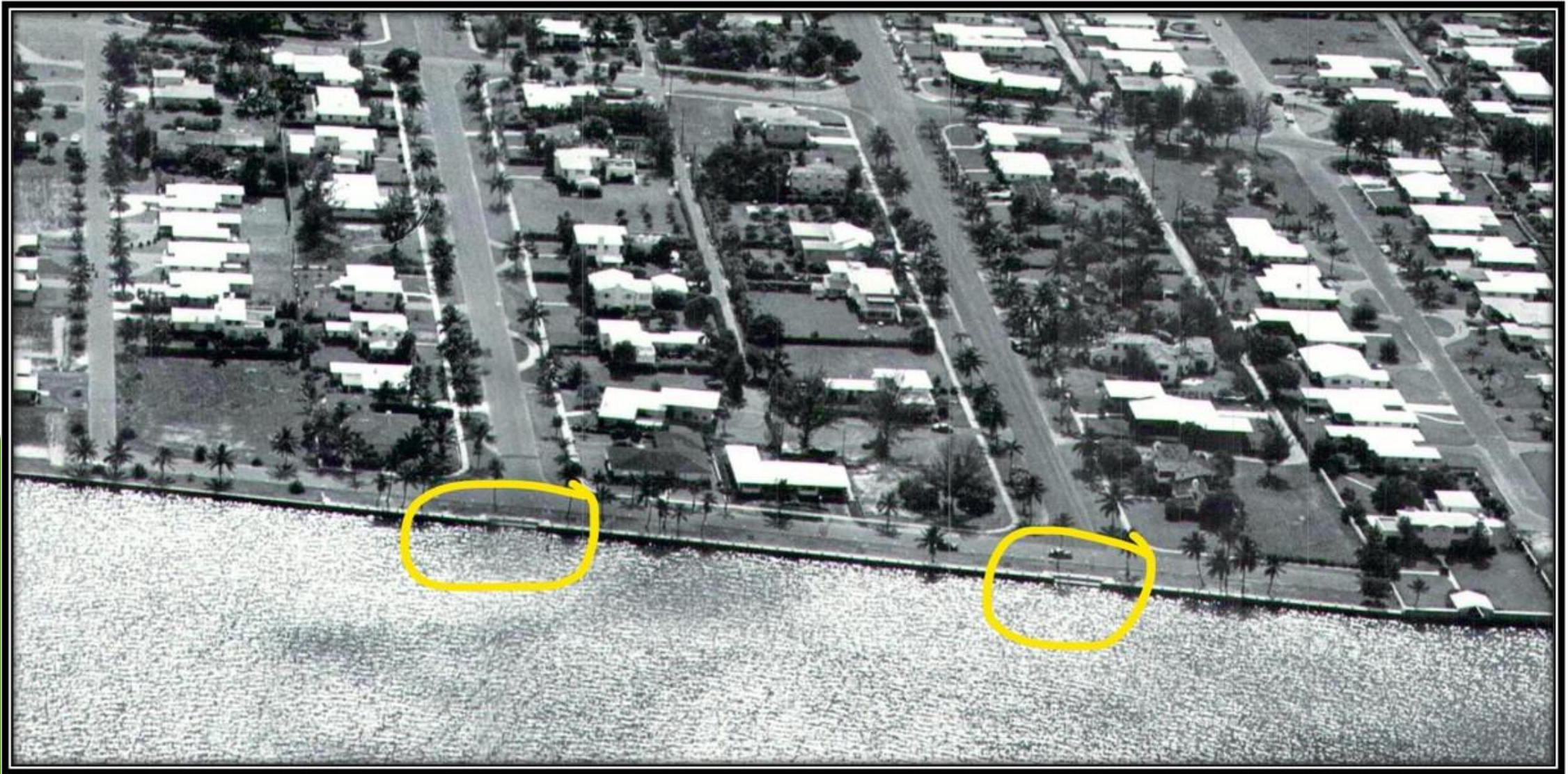


# HISTORIC AERIAL (1954)





# HISTORIC AERIAL (1954)





# DRONE AERIALS LOOKING SOUTHWEST





# DRONE AERIALS LOOKING NORTHWEST





# TYPICAL UPLAND CONDITION

CORROSION  
INDICATIVE OF  
WALL WAVE  
OVERTOPPING





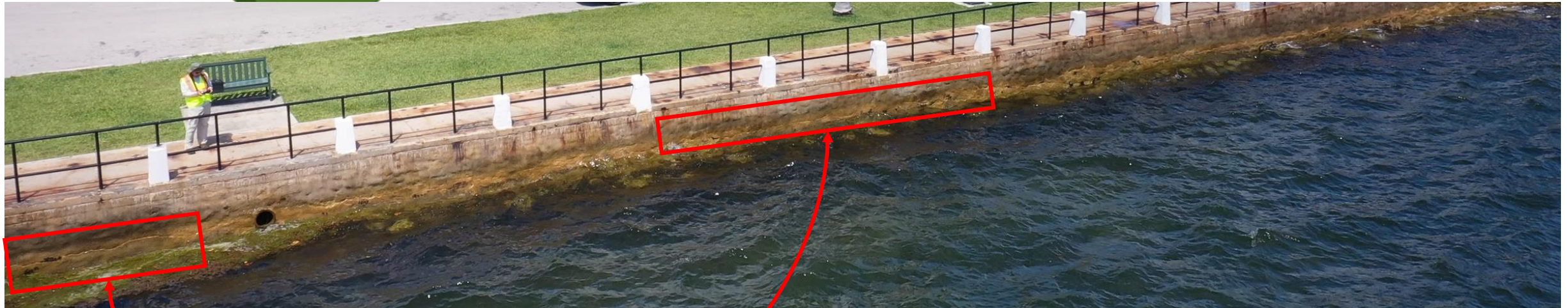
# GRAVITY TYPE WALL





# GRAVITY TYPE WALL - DETAILS

LONGITUDINAL CRACKING  
OBSERVED FROM DRONE IMAGERY





# PILE / PANEL WALL - DETAILS



SEVERE SPALLING AND CORROSION IN  
CONCRETE CAP FOR PILE PANEL FOR WALL  
PILE/PANEL SEGMENT



# WATER LEVELS

**TABLE 5.3 Sea Level Rise Projections and Water Level Elevations (Relative to 2000)**

<i>Based on NOAA Intermediate High Projection</i>	<i>2020</i>	<i>2030</i>	<i>2040</i>	<i>2050</i>	<i>2060</i>	<i>2070</i>	<i>2080</i>	<i>2090</i>	<i>2100</i>
Sea Level Rise (feet)	0.6	1.0	1.4	1.9	2.6	3.3	4.2	5.1	6.1
MHHW (feet, NAVD)	0.9	1.3	1.7	2.3	2.9	3.7	4.5	5.5	6.5
Extreme King Tide (feet, NAVD)	2.4	2.8	3.2	3.8	4.4	5.2	6.0	7.0	8.1

- Current Wall Elevation at approximately ~3.8ft NAVD88
- With impacts of wave, existing wall elevation could be overtopped during king tides.
- Future water levels could increase frequency of overtopping events.

# PUBLIC ENGAGEMENT



- Project Website
- Project Fact Sheet
- Public Outreach Survey
- Community Outreach
  - Pop-ups
  - Charrette meeting



# PUBLIC ENGAGEMENT

## WEBSITE

- Will be live immediately following this meeting



## Bayfront Park Project



The Bayfront Park project in Miami Shores Village aims to enhance the public waterfront area along the Biscayne Bay Intracoastal waterway. The park currently faces challenges such as flooding during the rainy season, which makes it inaccessible to visitors and causes saltwater intrusion into the storm drains. To address these issues, the Village has enlisted the expertise of Chen Moore and Associates, an engineering firm, to develop the design and navigate the permitting process. The envisioned improvements include a new, higher seawall and the addition of public amenities. Public engagement initiatives will be conducted to involve Village residents in the design process, incorporating their input through surveys, on-site events, and a public charette-style meeting.

The project will be supported by a matching grant from the Florida Inland Navigation District (FIND) and the Florida Department of Environmental Protection. FIND's grant stipulates the provision of waterfront access to all visitors. A dedicated project webpage will be created to share information, solicit input, and provide updates throughout the project. The design phase is scheduled from February 2023 to May 2024, followed by the anticipated construction start in June 2024. The Village has allocated a design budget of \$366,670 for Phase 1. For more information, inquiries can be directed to [bayfrontparkinfo@msvfl.gov](mailto:bayfrontparkinfo@msvfl.gov), and updates can be found on the Miami Shores Village website and social media channels.

**For the Fact Sheet please click [HERE](#)**  
**For the Waterfront Access Options please click [HERE](#)**



# PUBLIC ENGAGEMENT

## PROJECT FACT SHEET

- Summarizes project background and links to current status updates



MIAMI SHORES VILLAGE

## Bayfront Park Project Fact Sheet



### Project Background

Bayfront Park is a public waterfront with approximately a 900-foot waterfront trail that runs alongside the Biscayne Bay Intracoastal waterway. The current amenities include stunning bay front views, water fountains, and a walking path. During the rainy season, the area experiences flooding due to extreme high tides and storm surges, making the park inaccessible to visitors. The saltwater flowing over the seawall and onto the greenspace threatens the health of the grass and causes saltwater intrusion into the Village's storm drains.



### Project Purpose

The Village has retained the services of Chen Moore and Associates, a professional engineering firm, to develop the engineering and architectural design services and navigate permitting to assist in finalizing and implementing improvements to Bayfront Park. The Village envisions an improved Bayfront Park with a focus on resiliency and sustainability, including replacing the existing seawall with a new, higher seawall and public amenities for the enjoyment of visitors.



### Public Participation

The design of the park and its amenities will be developed hand in hand with Village residents. The Village will conduct pre-design Public Engagement to include public outreach surveys, on-site events, and a public charette-style meeting. Details are being developed and will be shared as soon as they are available. A dedicated project webpage will also be available and updated throughout the project to solicit input and provide residents with the latest information.



### Project Funding (Phase 1)

**Design Budget: \$366,670**

Part of this project will be financed with the assistance from a matching grant from the Florida Inland Navigation District (FIND) and the Florida Department of Environmental Protection. The FIND grant requires access to the waterfront for all visitors. To view different examples of what FIND considers waterfront access, please scan the QR code below.



### Project Timeline

**Design (Phase 1): February 2023 through May 2024**

**Anticipated Construction Start (Phase 2): June 2024**



### Project Location

**Bayfront Park**

**NW 94 Street to NW 96 Street and N. Bayshore Drive**



### CONTACT

For more information about the Bayfront Park Project, please send an email to [bayfrontparkinfo@msvfl.gov](mailto:bayfrontparkinfo@msvfl.gov).

@miamishoresvillage1932

[msvfl.gov](https://www.msvfl.gov) @miamishores1932



# PUBLIC ENGAGEMENT

## PUBLIC OUTREACH SURVEY

- CMA and Village developing public outreach survey to solicit input from residents





# PUBLIC ENGAGEMENT

## COMMUNITY OUTREACH — POP-UPS AND CHARRETTES

- CMA and Village scheduling pop-up and preliminary design charrettes





# FLORIDA INLAND NAVIGATION DISTRICT

FIND UPDATE



## WHAT IS FIND?

- Founded in 1927
- Manages federally accessible waterways (Intracoastal)
- Serves as the “local sponsor” of the Intracoastal Waterway (ICW)
- Led by 12 commissioners for each county on the ICW
- Offers Grant programs





# FLORIDA INLAND NAVIGATION DISTRICT

## FIND UPDATE

- **HOW DOES FIND DEFINE WATER ACCESS?**
  - Florida Administrative Code (F.A.C.) Chapter 66B-2
  - Examples include:
    - Viewing Piers
    - Boardwalks
    - Education programs

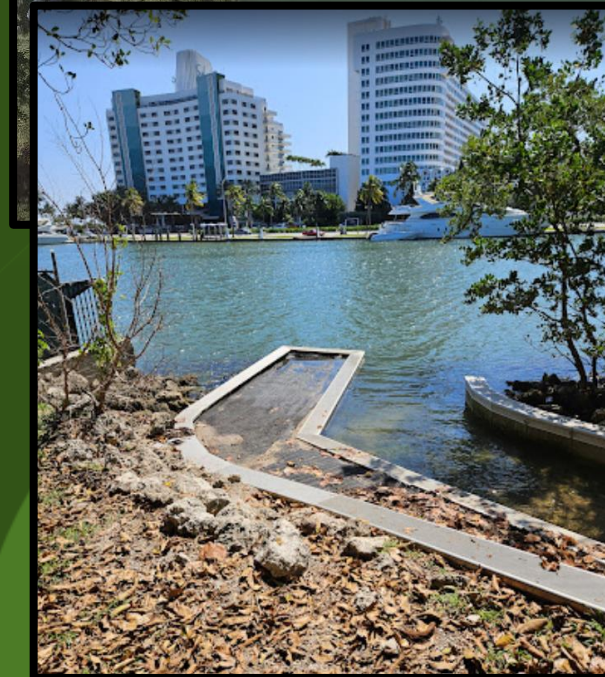




# FLORIDA INLAND NAVIGATION DISTRICT

## FIND UPDATE

- **WHAT HAS FIND APPROVED IN THE PAST?**
  - Lamar Lake, Virginia Key
    - Seawall & ADA Floating Dock
  - Pinetree Park, Miami Beach
    - At-grade Water Access
  - Manatee Bend Park, Upper East Side, Miami
    - Water Access Steps





# FLORIDA INLAND NAVIGATION DISTRICT

## FIND UPDATE

### MSV ENGAGEMENT WITH FIND

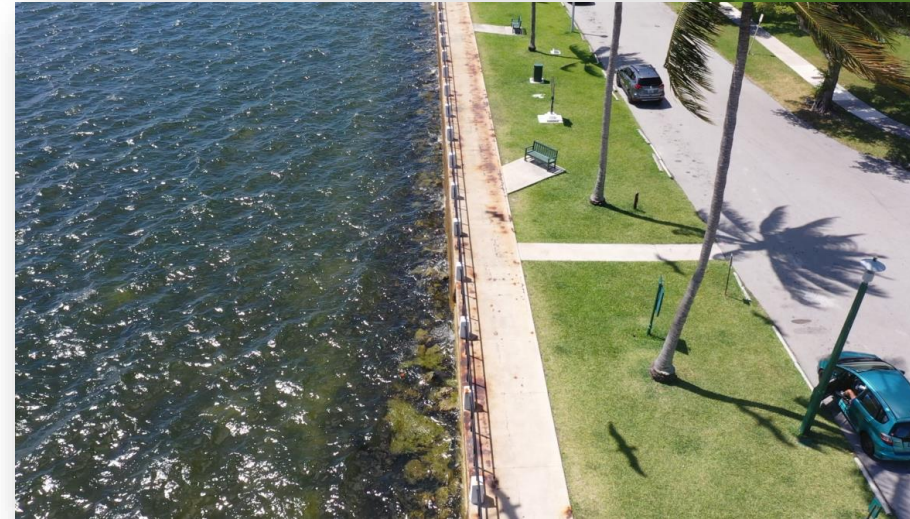
- Attended May 15, 2023 FIND Outreach Event at RSMAS
- Interacted with several FIND representatives and staff, including Miami-Dade, Broward, and Flagler County commissioners





# PRELIMINARY DESIGN

- Seawall elevation
  - Miami-Dade County Flood Criteria is minimum 6.0 ft-NAVD
  - Approx. 2.2-ft higher than existing
- Seawall material
  - To be developed during design
- Drainage & Fill
  - To be developed during design



# COST

## Design

- Topographic & Bathymetric Survey
- Geotechnical Investigation
- Arborist Report
- Coastal and Marine Field Observation
- Seagrass Assessment
- Community Engagement
- Engineering
- Landscape Architecture
- **Design Total – \$308,660**
- **Permitting & Bidding – \$58,010**
- **Total – \$366,670**

## Construction

- TBD

## Implications with FIND

- FIND grant is processed on a reimbursement basis.
- FDEP grant is \$1M





# SCHEDULE

- **Phase 1 – Design**
  - Start — February 2023
  - Estimated Completion — June 2024
- **Phase 2 – Construction**
  - To be determined





# THANK YOU



# cma

chen moore and associates

